

What is claimed is:

1. An automatic electric power generating device for wheels, comprising:

a wheel hub having a hollow column extended from a center thereof,

- 5 a first magnetic pole set and a second magnetic element; wherein, the first magnetic pole set has a spool, a left magnetic pole and a right magnetic pole; the spool is winded with a coil having one guiding end thereof connected to a first electric power driven device; the left and right magnetic poles are ring-shaped and are extended
10 downward to respectively form a plurality of equidistant magnetic pole plates at outer edges thereof, with the magnetic pole plates being alternately located when the left and right magnetic poles are fastened to each other to tightly enclose the spool therein; and an assembled structure of the aforesaid elements is fixed to the wheel
15 hub;

- a housing having an opening at a center portion thereof, a first magnetic element and a second magnetic pole set; wherein, the second magnetic pole set is consisted of a spool, a left magnetic pole and a right magnetic pole; the spool is winded with a coil having
20 one guiding end thereof connected to a second electric power driven

device; the left and right magnetic poles are ring-shaped and are extended downward to respectively form a plurality of equidistant magnetic pole plates at outer edges thereof, with the magnetic pole plates being alternately located when the left and right magnetic poles are fastened to each other to tightly enclose the spool therein; the spool and the left and right magnetic poles of the first magnetic pole set, and the second magnetic element, are placed in the housing without coming into contact with one another; the spool and the left and right magnetic poles of the second magnetic pole set, and the first magnetic element, are placed in the wheel hub without coming into contact with one another; the magnetic plates of the left and right magnetic poles of the first magnetic pole set are corresponded with the first magnetic element; and the magnetic plates of the left and right magnetic poles of the second magnetic pole set are corresponded with the second magnetic element; and through rotations of the wheel, the first magnetic pole set and the second magnetic element at the wheel hub are rotated; electric power is generated by induction between the immobile second magnetic pole set and the first magnetic element at the housing, and the rotating first magnetic pole set and the second magnetic element

at the wheel hub, thereby driving the first electric power driven device and providing the second electric power driven device with electric power and accomplishing automatically generating electric power without requiring any electric cells.

- 5 2. The automatic electric power generating device for wheels in accordance with claim 1, wherein the wheel hub may be disposed with additional magnetic pole sets, and the housing may be disposed with additional magnetic elements for corresponding with the magnetic poles sets at the wheel hub.
- 10 3. The automatic electric power generating device for wheels in accordance with claim 1, wherein the wheel hub may be disposed with additional magnetic elements, and the housing may be disposed with additional magnetic poles sets for corresponding with the magnetic elements at the wheel hub.
- 15 4. The automatic electric power generating device for wheels in accordance with claim 1, wherein the first electric power driven device is an illuminating element.
5. The automatic electric power generating device for wheels in accordance with claim 1, wherein the second electric power driven
20 device is a lighting device installed behind a seat.

6. The automatic electric power generating device for wheels in accordance with claim 1, wherein the second electric power driven device is a lighting device installed at a front portion of a vehicle.